

SYSTEM AND METHOD FOR ACQUIRING AND
PROCESSING COMPLEX IMAGES

ABSTRACT OF THE DISCLOSURE

In digital holographic imaging systems, streamed
holograms are compared on a pixel-by-pixel basis for
defect detection after hologram generation. An automated
5 image matching, registration and comparison method with
feedback confidence allows for runtime wafer inspection,
scene matching refinement, rotational wafer alignment and
the registration and comparison of difference images.